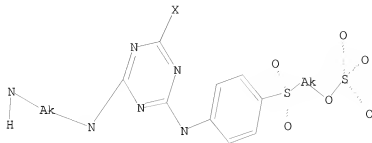


L20 STRUCTURE UPLOADED

=> d

L20 HAS NO ANSWERS

L20 STR



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l20

SAMPLE SEARCH INITIATED 09:45:37 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 292 TO ITERATE

100.0% PROCESSED 292 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4815 TO 6865

PROJECTED ANSWERS: 4 TO 200

L21 4 SEA SSS SAM L20

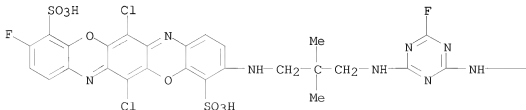
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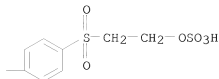
L21 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 4,11-Triphenyldioxazinedisulfonic acid, 6,13-dichloro-3-fluoro-10-[[[4-fluoro-6-[[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2,2-dimethylpropyl]amino]-

MF C34 H28 Cl2 F2 N8 O14 S4

PAGE 1-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 120 full

FULL SEARCH INITIATED 09:45:47 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5840 TO ITERATE

100.0% PROCESSED 5840 ITERATIONS

68 ANSWERS

SEARCH TIME: 00.00.01

L22 68 SEA SSS FUL L20

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

406.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-6.40

FILE 'CAPLUS' ENTERED AT 09:45:51 ON 25 FEB 2008

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L23 17 L22

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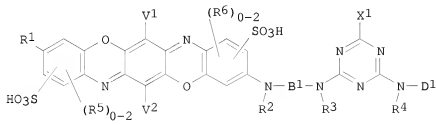
L23 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
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 DOCUMENT NUMBER: 147:167741
 TITLE: Triphenodioxazine reactive dyes, a process for their preparation and their use
 INVENTOR(S): Reichert, Hans; Verdugo, Thomas
 PATENT ASSIGNEE(S): Huntsman Advanced Materials (Switzerland) G.m.b.H., Switz.
 SOURCE: PCT Int. Appl., 55pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007077129	A2	20070712	WO 2006-EP69978	20061220
WO 2007077129	A3	20071101		

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PRIORITY APPLN. INFO.: EP 2006-100014 A 20060102
 GI



I

AB The invention relates to reactive dyes of formula I: wherein R1 is halogen, R2, R3 and R4 are each independently of the others hydrogen or unsubstituted or substituted C1-C4alkyl, (R5)0-2 and (R6)0-2 each independently of the other denote from 0 to 2 identical or different substituents from the group C1-C4 alkyl, C1-C4 alkoxy, C2-C4 alkanoylamino, carboxy, sulfo, carbamoyl, N-C1-C4 alkylcarbamoyl,

N,N-di-C1-C4 alkylcarbamoyl, C1-C 4 alkylsulfonyl, sulfamoyl, N-C1-C4 alkylsulfamoyl and N,N-di-C1-C4 alkylsulfamoyl, B1 is an aliphatic or aromatic bridging member, D1 is a radical of the aliphatic, aromatic or heterocyclic series substituted by at least one fiber-reactive group, V1 and V2 are each independently of the other hydrogen, halogen, C1-C4 alkyl, C1-C4 alkoxy, or unsubstituted or substituted Ph, unsubstituted or substituted phenoxy, unsubstituted or substituted C2-C6 alkanoylamino or unsubstituted or substituted benzoylamino, and X1 is halogen, hydroxy, C1-C4 alkoxy, C1-C4 alkylthio, unsubstituted or substituted amino or an N-heterocycle which may contain further hetero atom(s). The reactive dyes are suitable for the dyeing of an extremely wide variety of fiber materials, especially cellulosic fiber materials, and yield dyeings having good all round fastness properties.

IT 943843-73-0P 943843-81-0P 943843-94-5P
943843-95-6P 943844-08-4P 943844-10-8P
943844-24-4P 943844-26-6P 943844-63-1P
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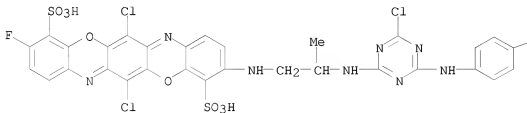
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(brilliant blue dye; production of triphenodioxazine reactive dyes for dyeing fabrics with good fastness properties)

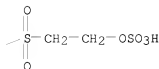
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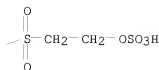
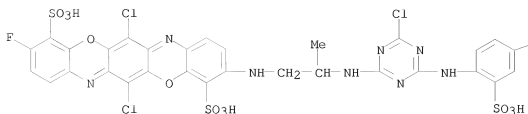


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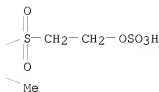
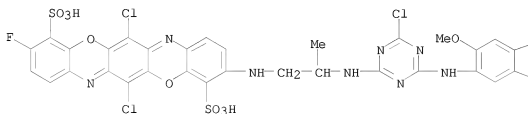
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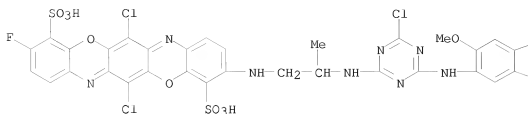
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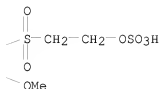
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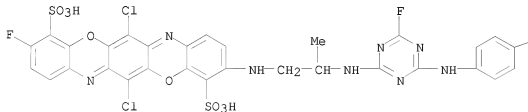
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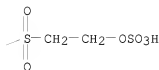
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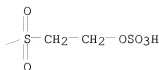
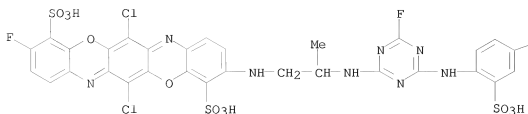


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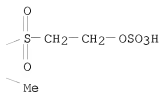
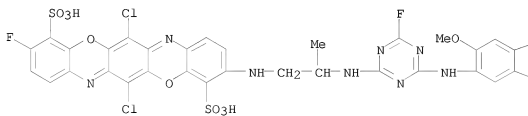
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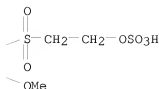
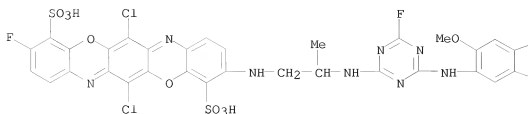
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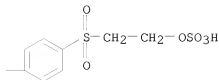
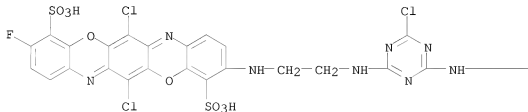
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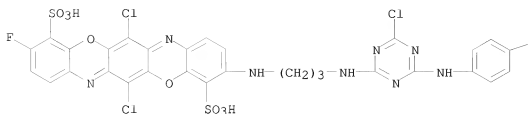
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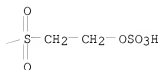
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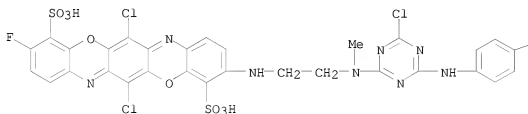


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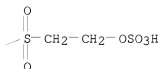


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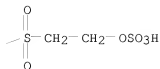
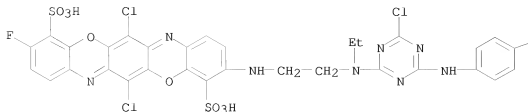
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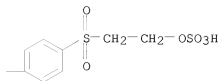
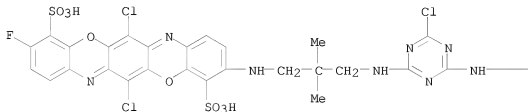


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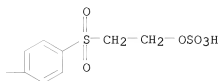
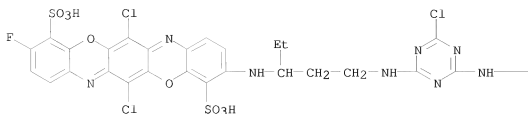
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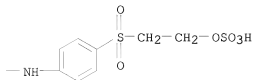
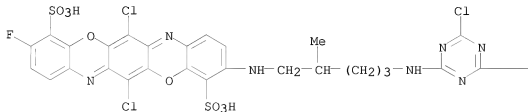
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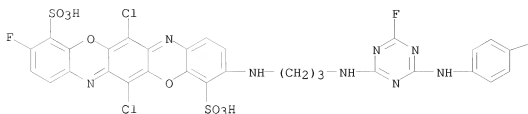
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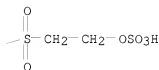
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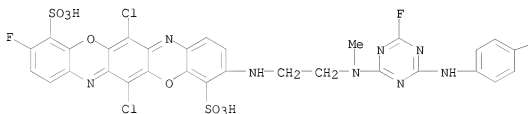


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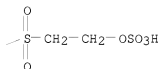


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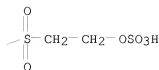
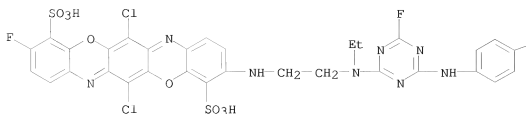
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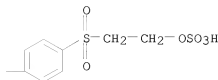
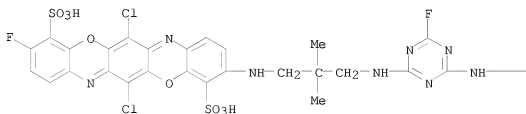
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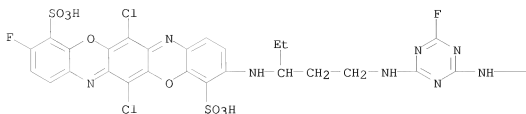


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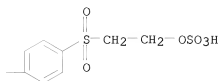


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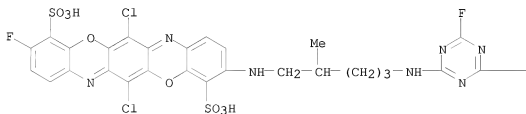
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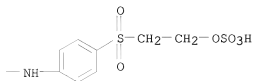
RN 943844-91-5 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3-fluoro-10-[[5-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-methylpentyl]amino]- (CA INDEX NAME)

PAGE 1-A

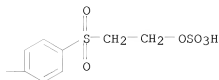
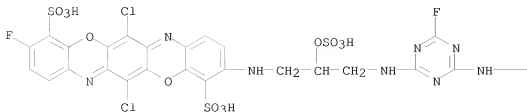


PAGE 1-B



RN 943844-92-6 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3-fluoro-10-[[3-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-(sulfooxy)propyl]amino]- (CA INDEX NAME)



IT 943845-00-9P 943845-01-0P 943845-02-1P

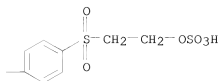
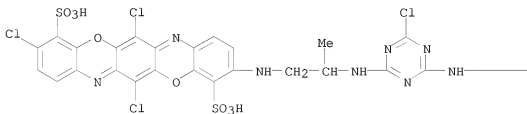
943845-03-2P 943845-04-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(production of triphenodioxazine reactive dyes for dyeing fabrics with good fastness properties)

RN 943845-00-9 CAPLUS

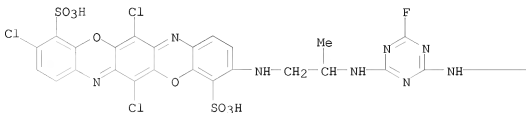
CN 4,11-Triphenodioxazinedisulfonic acid, 3,6,13-trichloro-10-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]- (CA INDEX NAME)



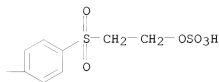
RN 943845-01-0 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 3,6,13-trichloro-10-[[2-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]- (CA INDEX NAME)

PAGE 1-A



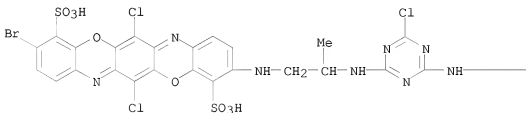
PAGE 1-B



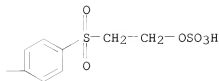
RN 943845-02-1 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 3-bromo-6,13-dichloro-10-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]- (CA INDEX NAME)

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PAGE 1-B

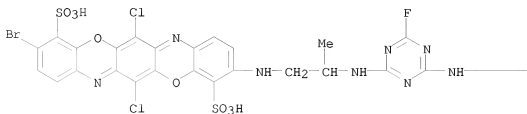


RN 943845-03-2 CAPLUS

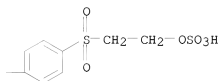
CN 4,11-Triphenodioxazinedisulfonic acid, 3-bromo-6,13-dichloro-10-[[2-[[4-

fluoro-6-[[4-[[2-(sulfooxy)ethylsulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]- (CA INDEX NAME)

PAGE 1-A



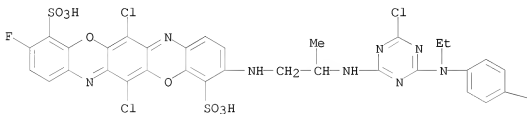
PAGE 1-B



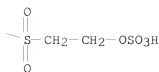
RN 943845-04-3 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3-[[2-[[4-chloro-6-ethyl[4-[[2-(sulfooxy)ethylsulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-10-fluoro- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L23 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2008 ACS ON STN
 ACCESSION NUMBER: 2007:175493 CAPLUS <<LOGINID::20080225>>
 DOCUMENT NUMBER: 146:253562
 TITLE: Azo reactive dyes, their preparation and their application for cotton fiber and fabric dyeing and printing
 INVENTOR(S): Christnacher, Hubert Jean Luc; Tzikas, Athanassios; Roentgen, Georg
 PATENT ASSIGNEE(S): Huntsman Advanced Materials (Switzerland) GmbH, Switz.
 SOURCE: PCT Int. Appl., 25pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017425	A2	20070215	WO 2006-EP64937	20060802
WO 2007017425	A3	20070405		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: EP 2005-107317 A 20050809
 OTHER SOURCE(S): MARPAT 146:253562
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Reactive dyes (I), wherein B = an aliphatic bridging member, R1 = C1-4 alkyl, halogen, or -SO2-Z radical, R2-3 = C1-4 alkoxy, R4-6 = H, unsubstituted or substituted C1-4 alkyl, k, q = 0 or 1, p = 0, 1, 2, X1-2 = halogen, and T = halogen, a non-fiber-reactive substituent or fiber-reactive radicals, are suitable especially for dyeing cellulose-containing fibers or fabrics, especially

cotton fibers and fabrics. Thus, reactive dye II was synthesized from aniline-2,5-disulfonic acid, cyanuric fluoride, 1,2-propylenediamine, and compound III.

IT 925210-36-2P

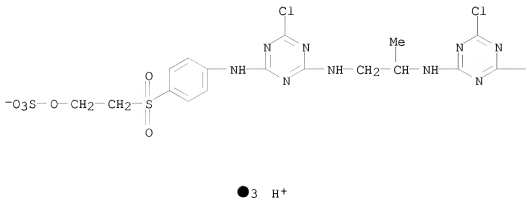
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of azo reactive dyes for cotton fiber and fabric dyeing and printing)

RN 925210-36-2 CAPLUS

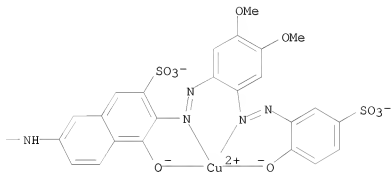
CN Cuprate(3-), [7-[[4-chloro-6-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonylphenyl]amino]-1,3,5-triazin-2-yl]amino]-1-

methylethylamino]-1,3,5-triazin-2-yl]amino]-4-(hydroxy-κO)-3-[2-[2-[2-(2-(hydroxy-κO)-5-sulfophenyl]diazenyl-κN1]-4,5-dimethoxyphenyl]diazenyl-κN1]-2-naphthalenesulfonato(5-)]-, hydrogen (1:3) (CA INDEX NAME)

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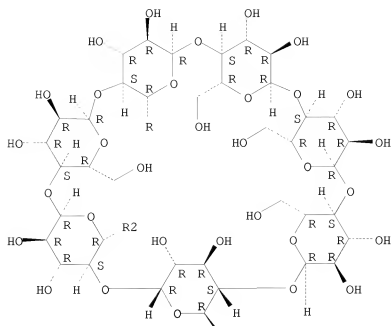


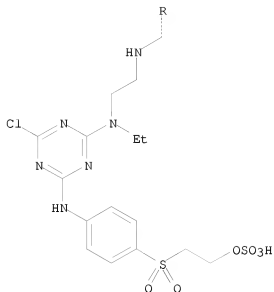
L23 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:570933 CAPLUS <<LOGINID::20080225>>
 DOCUMENT NUMBER: 143:98900
 TITLE: Reactive polysaccharide derivatives, their preparation and their use
 INVENTOR(S): Hall-Gouille, Veronique; Tzikas, Athanassios
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 69 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058975	A1	20050630	WO 2004-EP53332	20041208
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1694713	A1	20060830	EP 2004-820464	20041208
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
CN 1894283	A	20070110	CN 2004-80037220	20041208
BR 2004017593	A	20070320	BR 2004-17593	20041208
US 2007113356	A1	20070524	US 2006-583012	20060615
IN 2006CN02145	A	20070706	IN 2006-CN2145	20060616
PRIORITY APPLN. INFO.:			EP 2003-104773	A 20031218
			WO 2004-EP53332	W 20041208
OTHER SOURCE(S):	MARPAT 143:98900			
AB	A reactive polysaccharide derivative of (HO)mPS[N(Q1)BAZ1]n or (HO)mPS[N(Q3)Z2]n (A = O, S, N(Q2)); Q1 = H, radical-BAZ1, optionally substituted C1-10 aryl, C1-12 alkyl which may be interrupted by O and is unsubstituted or substituted; Q2, Q3 = H, optionally substituted C1-10 aryl, C1-12 alkyl which may be interrupted by O and is unsubstituted or substituted; B = aliphatic or aromatic bridge; Z1, Z2 = reactive radical of the vinylsulfonyl series, the haloacryloyl series or the heterocyclic series; PS = polysaccharide radical; m = 0, 1 or an integer greater than 1; n = 1 or an integer greater than 1; the sum of n+m corresponds to the original number of HO groups in the polysaccharide mol.) is useful as a finishing agent for textile fibers and for other applications. Mono(6-O-p-toluenesulfonyl)- β -cyclodextrin was modified with N-ethylethylenediamine to give a derivative for textile finishing.			
IT	856428-47-2P 856428-52-9P 856428-54-1P 856428-55-2P 856428-57-4P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manufacture of reactive polysaccharide derivs. for finishing fabrics)			
RN	856428-47-2 CAPLUS			
CN	β -Cyclodextrin, 6A-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonylphenyl]amino]-1,3,5-triazin-2-yl]ethylamino]ethyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.

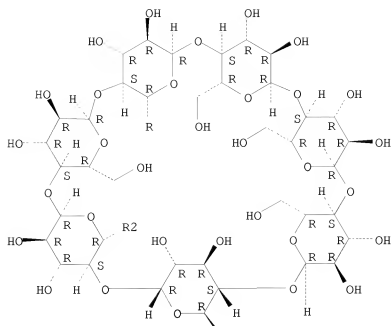


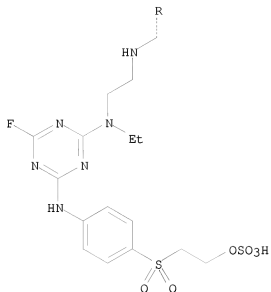


RN 856428-52-9 CAPLUS

CN β-Cyclodextrin, 6A-deoxy-6A-[[2-[ethyl[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

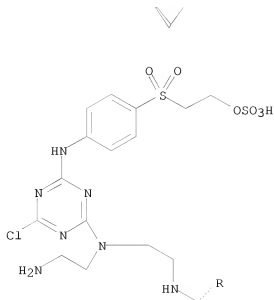
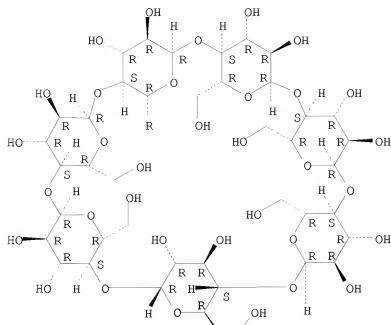




RN 856428-54-1 CAPLUS

CN β -Cyclodextrin, 6A-[[2-[(2-aminoethyl)[4-chloro-6-[[4-[[2-(sulfoxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)

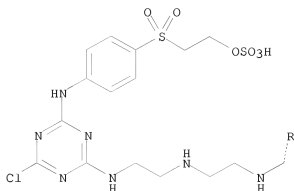
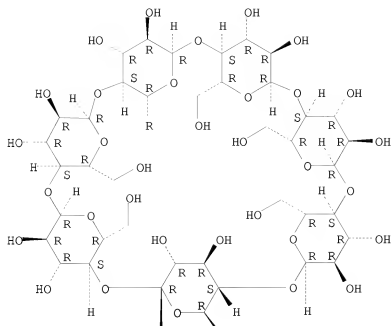
Absolute stereochemistry.



RN 856428-55-2 CAPLUS

CN β -Cyclodextrin, 6A-[[2-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]ethyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)

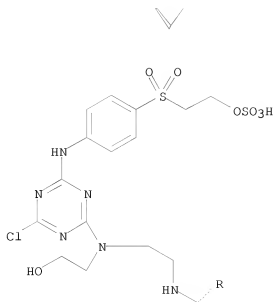
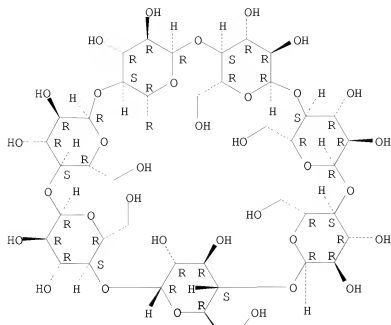
Absolute stereochemistry.



RN 856428-57-4 CAPLUS

CN β -Cyclodextrin, 6A-[[2-[[4-chloro-6-[[4-[[2-(sulfoxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl](2-hydroxyethyl)amino]ethylamino]-6A-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

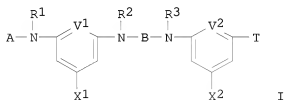
ACCESSION NUMBER: 2002:51717 CAPLUS <<LOGINID::20080225>>

DOCUMENT NUMBER: 136:119798

TITLE: Printing cellulosic fiber materials without an additional fixing process step
 INVENTOR(S): Tzikas, Athanassios; Reichert, Hans; Klier, Herbert
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004741	A1	20020117	WO 2001-EP7362	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
TW 243842	B	20051121	TW 2001-90114810	20010619
EP 1299594	A1	20030409	EP 2001-953180	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004502886	T	20040129	JP 2002-509589	20010628
CN 1660942	A	20050831	CN 2005-10054704	20010628
US 2002032318	A1	20020314	US 2001-899439	20010705
US 6623533	B2	20030923		
US 2004055098	A1	20040325	US 2003-618922	20030714
US 6953845	B2	20051011		
PRIORITY APPLN. INFO.:			EP 2000-810594	A 20000707
			CN 2001-812474	A3 20010628
			WO 2001-EP7362	W 20010628
			US 2001-899439	A3 20010705

OTHER SOURCE(S): MARPAT 136:119798
 GI



AB Printing cellulosic fiber materials comprises fiber material brought into contact with reactive dyes I, where A is the radical of a monoazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine chromophore, R1, R2 and R3 = H or unsubstituted or substituted C1-4-alkyl, X1 and X2 = halogen, B is an organic bridging member, T is a reactive radical, R4 = H, C1-4-alkyl unsubstituted or substituted by hydroxy, sulfo, sulfato, carboxy or by CN, or a radical alkR5SO2Y, where

R5 = is H, OH, sulfo, sulfato, carboxy, CN, halogen, C1-C4alkoxycarbonyl, C1-C4alkanoyloxy, carbamoyl or SO2Y, R6 = H or C1-C4alkyl, alk and alk1 are linear or branched C1-C6alkylene, arylene is an unsubstituted or sulfo, carboxy, OH, C1-C4alkyl, C1-C4alkoxy- or halo-substituted phenylene or naphthylene radical, Y = vinyl or a radical CH2CH2U and U is a leaving group, Y1 = CH(Hal)CH2(Hal) or C(Hal)=CH2, where Hal is Cl or Br, W = SO2NR6, CONR6 or NR6CO, Q = O or NR6, n = 0 or 1, and V1 and V2 = N, CH, CCl or CF. The prints obtained are distinguished by brilliant color shades and good all around properties.

IT 390368-45-3P

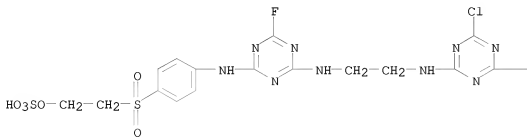
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(dyeing by; reactive dye printing cellulosic materials without addnl. fixing process step)

RN 390368-45-3 CAPLUS

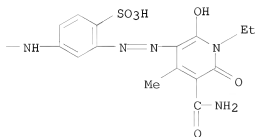
CN Benzenesulfonic acid, 2-[[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-[[[4-chloro-6-[[[2-[[[4-fluoro-6-[[[4-[[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]methyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

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D1-Me

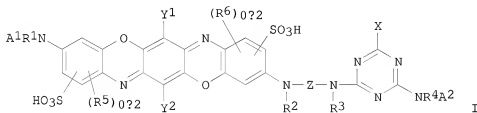
PAGE 1-B



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:665629 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 133:239370
 TITLE: Triphenodioxazine reactive dyes, their production and their use
 INVENTOR(S): Reichert, Hans; Verdugo, Thomas
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: Eur. Pat. Appl., 46 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1036825	A1	20000920	EP 2000-810188	20000307
EP 1036825	B1	20040506		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TW 506993	B	20021021	TW 2000-89102970	20000221
AT 266061	T	20040515	AT 2000-810188	20000307
ES 2219289	T3	20041201	ES 2000-810188	20000307
US 6592634	B1	20030715	US 2000-521711	20000309
CN 1266870	A	20000920	CN 2000-104094	20000314
JP 2000281921	A	20001010	JP 2000-71448	20000315
HK 1029133	A1	20050114	HK 2000-108516	20001228
PRIORITY APPLN. INFO.:			EP 1999-810229	A 19990315
OTHER SOURCE(S):	MARPAT 133:239370			
GI				



AB The reactive dyes (I; R1-R4 = H, optionally substituted C1-4-alkyl; R5, R6 = halogen, carboxy, sulfo, carbamoyl, organic group; A1 = H, optionally substituted C1-4-alkyl, optionally substituted Ph or naphthyl; A2 = fiber-reactive group-substituted alkyl, aryl, heterocyclic moiety; Y1, Y2 = H, halogen, organic group; Z = aliphatic or aromatic connecting group) with good

fastness, color yield, and application (no alkaline aftertreatment required) properties are obtained from the requisite p-phenylenediamines, benzoquinones, and halotriazines. Thus, 2,3,5-trichloro-6-methoxy-1,4-benzoquinone was condensed with 5-amino-2-(2-hydroxyethylamino)benzenesulfonic acid and the orange product was further treated with 5-amino-2-(2-aminopropylamino)benzenesulfonic acid. Cyclization of the product followed by condensation with cyanuric chloride and

4-(2-sulfatoethylsulfonyl)aniline gave a brilliant blue dye with a chlorotriazine and 2 vinyl sulfone-generating groups, having good fastness properties on cotton.

IT 293756-03-3P 293756-04-4P

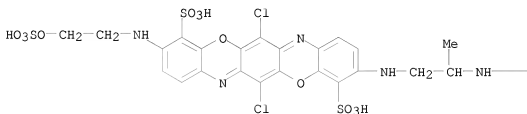
RL: IMF[™] (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(blue dye; production of reactive triphenodioxazine dyes)

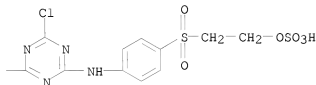
RN 293756-03-3 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethylsulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-10-[[2-(sulfooxy)ethyl]amino]- (CA INDEX NAME)

PAGE 1-A



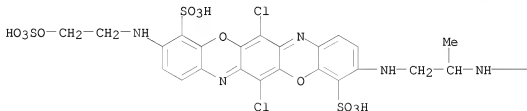
PAGE 1-B

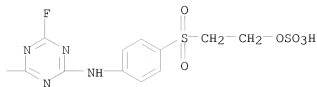


RN 293756-04-4 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3-[[2-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethylsulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-10-[[2-(sulfooxy)ethyl]amino]- (CA INDEX NAME)

PAGE 1-A



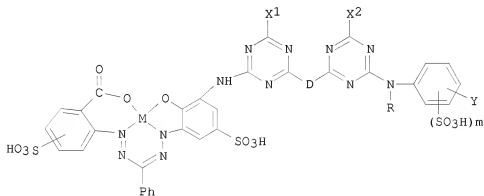


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:505688 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 131:145686
 TITLE: Multifunctional reactive blue formazan dyes
 INVENTOR(S): Phillips, Duncan Adrian Sidney; Taylor, John Anthony;
 Chen, Wen-Jang
 PATENT ASSIGNEE(S): Everlight USA, Inc., USA
 SOURCE: U.S., 19 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5936073	A	19990810	US 1998-205353	19981204
PRIORITY APPLN. INFO.:			US 1998-205353	19981204
OTHER SOURCE(S):	MARPAT	131:145686		

GI



I

AB The dyes have the formula I [D = NH(CH₂)pNH, NR₁(CH₂)qC₆H₄-n(SO₃H)nNH; M = Cu, Ni; R, R₁ = H, C₁-4 alkyl; X₁, X₂ = F, Cl, Br, quaternary ammonium; Y = SO₂CH₂CH₂ or precursor, NHCOTCH₂ or precursor; T = OH, Cl, Br, OSO₃H; m = 0, 1; p, q = 0-4]. These dyes have deep-dyeing ability, and are

suitable for dyeing and printing of materials containing cellulose fibers, such as cotton, synthetic cotton, hemp, and synthetic hemp.

IT 236386-99-5P 236387-00-1P

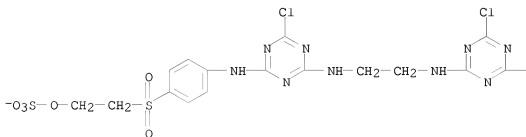
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(blue; preparation of multifunctional reactive formazan dyes)

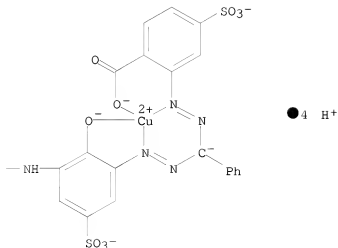
RN 236386-99-5 CAPLUS

CN Cuprate(4-), [2-[[[3-[[4-chloro-6-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulfobenzoato(6-)-κO]-, tetrahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



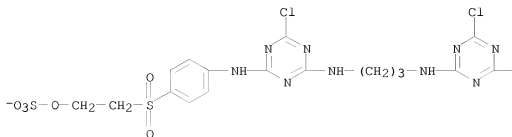
PAGE 1-B



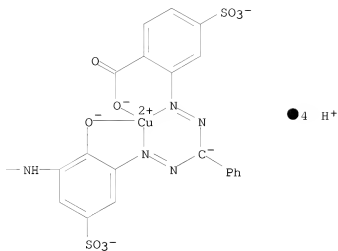
RN 236387-00-1 CAPLUS

CN Cuprate(4-), [2-[[[3-[[4-chloro-6-[[3-[[4-chloro-6-[[4-[[2-(sulfooxy)ethylsulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulfobenzoato(6-κO)-, tetrahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



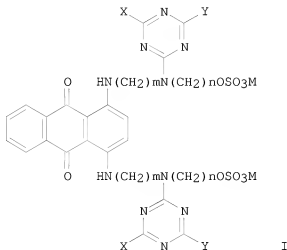
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:433548 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 127:52211
 TITLE: Reactive anthraquinone dyes, their preparation and their use

INVENTOR(S): Reiher, Uwe; Russ, Werner Hubert; Brandl, Matthias
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany
 SOURCE: Ger. Offen., 19 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19542749	A1	19970522	DE 1995-19542749	19951116
PRIORITY APPLN. INFO.:			DE 1995-19542749	19951116
OTHER SOURCE(S):	CASREACT	127:52211; MARPAT	127:52211	

GI



AB The dyes (I; M = H, alkali metal; X = Cl, F, optionally substituted alkoxy or amino; Y = Cl, F, amine-linked vinyl sulfone or aryl group; m, n = 1-3) are obtained from the appropriate 1,4-bis(sulfatoalkylaminoalkylamino)anthraquinones, halotriazines, and optional aromatic amine/vinyl sulfone precursors. I provide fast blue shades on fibrous substrates containing hydroxy or amide groups. In an example, 1,4-bis[2-(2-hydroxyethylamino)ethylamino]anthraquinone was sulfated and then treated with cyanuric chloride to give a reactive blue (λ_{\max} 634 nm) dye with good fastness on cotton.

IT 191038-34-3P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of reactive anthraquinone blue dyes for cotton)

RN 191038-34-3 CAPLUS

CN 9,10-Anthracenedione, 1,4-bis[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl][2-(sulfooxy)ethyl]amino]ethyl]amino]- (CA INDEX NAME)

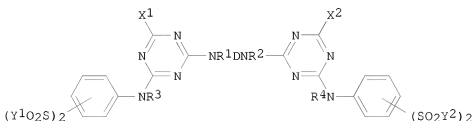
INVENTOR(S): Omura, Takashi
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08034932	A	19960206	JP 1995-52447	19950313
JP 2590778	B2	19970312		

PRIORITY APPLN. INFO.: JP 1995-52447 19950313

OTHER SOURCE(S): MARPAT 124:319668

GI



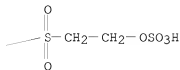
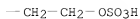
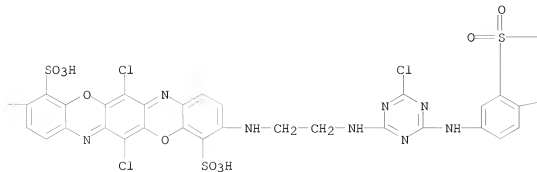
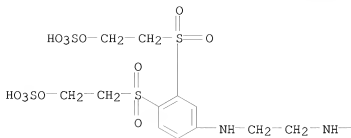
AB Triazines I [R1-4 = H, (un)substituted alkyl; X1-2 = Cl, F, (un)substituted aliphatic aromatic amino, Cl-4 alkoxy, (un)substituted PhO;

Y1-2 = (CH2)2L, vinyl; D = azo-, anthraquinone-, phthalocyanine-, formazan-, or dioxazine-type anionic dye residue; L = leaving group activated by alkali] are prepared and used for dyeing or printing of fibers, especially cotton, to give colored fibers with good fastness.

IT 176206-46-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (in preparation of reactive triazine dyes)

RN 176206-46-5 CAPLUS

CN 4,11-Triphenyldioxazinedisulfonic acid, 3-[[2-[[4-[[3,4-bis[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]amino]-10-[[2-[[3,4-bis[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]ethyl]amino]-6,13-dichloro- (CA INDEX NAME)

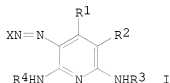


L23 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:511467 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 121:111467
 TITLE: Reactive pyridyl azo dyes, their manufacture and their use
 INVENTOR(S): Tzikas, Athanassios; Deitz, Rolf
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Eur. Pat. Appl., 40 pp.

DOCUMENT TYPE: CODEN: EPXXDW
 LANGUAGE: Patent
 German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 581731	A2	19940202	EP 1993-810505	19930714
EP 581731	A3	19941117		
EP 581731	B1	19981209		
R: BE, CH, DE, ES, FR, GB, IT, LI, PT				
ES 2126638	T3	19990401	ES 1993-810505	19930714
US 5391717	A	19950221	US 1993-94645	19930719
JP 06179831	A	19940628	JP 1993-181293	19930722
JP 3739415	B2	20060125		

PRIORITY APPLN. INFO.: CH 1992-2349 A 19920723
 OTHER SOURCE(S): MARPAT 121:111467
 GI



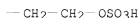
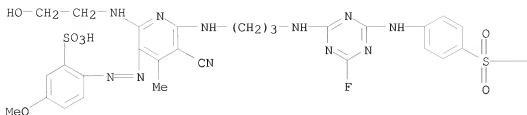
AB The dyes (I; R1 = Cl-4-alkyl; R2 = CN, carbamoyl, sulfomethyl; R3, R4 = H, optionally substituted alkyl; X = diazo component) have ≥ 2 fiber-reactive groups. The reactive groups may be on R3 or R4 or on X, in the form of halopyrimidine or halotriazine. At least one sulfo or sulfato group is also present. I are suitable for dyeing or printing of cellulosics or natural or synthetic polyamides with good fastness. Thus, 4-(2-sulfatoethylsulfonyl)aniline was condensed with cyanuric fluoride followed by a mixture of 2 pyridine azo dyes to provide a mixture of reactive dyes containing fluorotriazine and sulfatoethylsulfonyl groups. The mixture conferred a brilliant gold yellow shade on cotton and wool.

IT 155952-51-5P 155952-52-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, as reactive dye for cotton and wool)

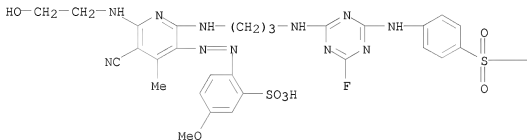
RN 155952-51-5 CAPLUS

CN Benzenesulfonic acid, 2-[[[5-cyano-6-[[[3-[[[4-fluoro-6-[[[4-[[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-2-[(2-hydroxyethyl)amino]-4-methyl-3-pyridinyl]azo]-5-methoxy-(9CI) (CA INDEX NAME)



RN 155952-52-6 CAPLUS

CN Benzenesulfonic acid, 2-[[5-cyano-2-[[3-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-4-methyl-3-pyridinyl]azo]-5-methoxy- (9CI) (CA INDEX NAME)



L23 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:499387 CAPLUS <<LOGINID:20080225>>

DOCUMENT NUMBER: 113:99387

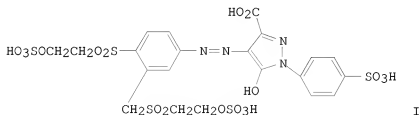
TITLE: Dyes having at least two fiber-reactive groups, and their intermediates

INVENTOR(S): Patsch, Manfred; Nahr, Uwe; Wirsing, Friedrich;

Jessen, Joerg L.; Pandl, Klaus; Marschner, Claus;
Dust, Matthias
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 81 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 352682	A2	19900131	EP 1989-113540	19890722
EP 352682	A3	19901010		
EP 352682	B1	19940202		
R: CH, DE, FR, GB, IT, LI				
DE 3825656	A1	19900322	DE 1988-3825656	19880728
JP 02073867	A	19900313	JP 1989-194394	19890728
US 5210187	A	19930511	US 1992-865744	19920409
PRIORITY APPLN. INFO.:			DE 1988-3825656	A 19880728
			US 1989-381941	B1 19890719
			US 1990-554860	B1 19900720

OTHER SOURCE(S): CASREACT 113:99387; MARPAT 113:99387
GI

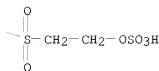
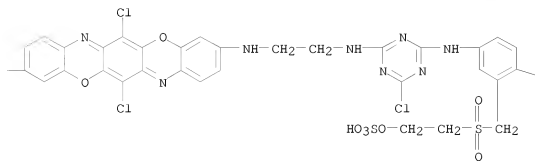
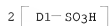
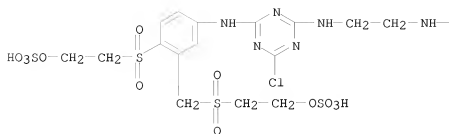


AB The dyes have a high color yield and are useful for dyeing hydroxyl group-containing fibers (e.g., cotton, wool). Thus, 4-(2-sulfatoethylsulfonyl)-3-(2-sulfatoethylsulfonylmethyl)aniline was diazotized and coupled with 1-(4-sulfophenyl)-3-carboxy-5-pyrazolone, forming I, which dyed cotton fast yellow shades.

IT 127303-98-4P
RL: PREP (Preparation)
(manufacture of, as reactive blue dye for cotton)

RN 127303-98-4 CAPLUS

CN Triphenodioxazinedisulfonic acid, 6,13-dichloro-3,10-bis[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]-3-[[[2-(sulfooxy)ethyl]sulfonyl]methyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]- (9CI) (CA INDEX NAME)



IT 127278-52-8P

RL: PREP (Preparation)

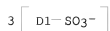
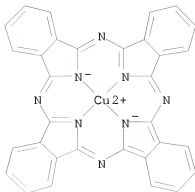
(manufacture of, as reactive turquoise dye for cotton)

RN 127278-52-8 CAPLUS

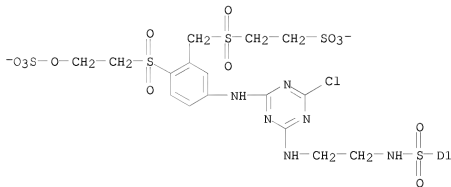
CN Cuprate(5-), [C-[[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]-3-[[2-(sulfooxy)ethyl]sulfonyl]methyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(7-

)-N29,N30,N31,N32]-, pentahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



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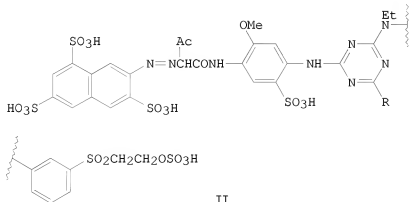
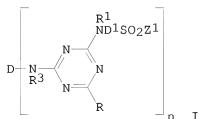
●5 H⁺

L23 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:136910 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 110:136910
 TITLE: Mixed reactive dye compositions and dyeing and
 printing therewith
 INVENTOR(S): Harada, Naoki; Omura, Takashi; Imada, Kunihiro
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63210170	A	19880831	JP 1987-44616	19870226
JP 08003050	B	19960117		

PRIORITY APPLN. INFO.: JP 1987-44616 19870226
 OTHER SOURCE(S): MARPAT 110:136910
 GI



II

AB The title compns., producing cotton dyeings with excellent leveling and reproducibility, contain ≥ 2 of I [D = sulfo group-containing organic dye residue; D1, D2 = (un)substituted phenylene, naphthylene; R = N(R2)D2SO2Z2; R1, R2, R3, Z1, Z2 = vinyl, CH2CH2L; L = alkali-removable group; n = 1-3], I (R = Cl, F, Br, quaternary N atom-containing tertiary N compound residue), and I (R = NR4R5; R4 = H, (un)substituted lower alkyl; R5 = (un)substituted Ph, naphthyl; . A typical mixture producing level greenish-yellow cotton dyeing contained II (R = Cl) and II (R = m-NHC6H4SO2CH2CH2OSO3H) in a 1:1 ratio.

IT 119043-29-7 119636-56-5

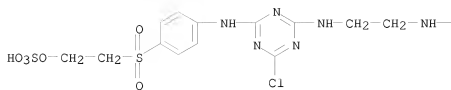
RL: TEM (Technical or engineered material use); USES (Uses)

(dye mixts. containing, with good reproducibility and leveling, for cotton)

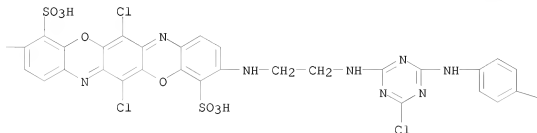
RN 119043-29-7 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3,10-bis[[2-[[4-chloro-6-[[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]- (CA INDEX NAME)

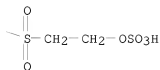
PAGE 1-A



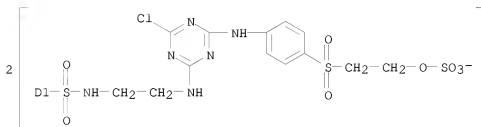
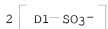
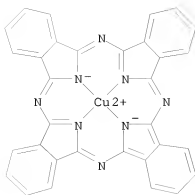
PAGE 1-B



PAGE 1-C



RN 119636-56-5 CAPLUS
 CN Cuprate(4-), [C,C-bis[[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C-disulfonato(6-)]-, tetrahydrogen (9CI) (CA INDEX NAME)



L23 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:592172 CAPLUS <<LOGINID::20080225>>
DOCUMENT NUMBER: 109:192172
TITLE: Triphenyldioxazine reactive dyes and process for their
manufacture
INVENTOR(S): Sawamoto, Hirokazu; Harada, Naoki; Omura, Takashi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 275022	A2	19880720	EP 1988-100062	19880105
EP 275022	A3	19890125		
EP 275022	B1	19920506		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 63170463	A	19880714	JP 1987-1372	19870107
JP 07116376	B	19951213		
US 4933446	A	19900612	US 1987-133605	19871216
ES 2037110	T3	19930616	ES 1988-100062	19880105
PRIORITY APPLN. INFO.:			JP 1987-1372	A 19870107
OTHER SOURCE(S):	MARPAT 109:192172			
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. I [Q = SO₃H, OH, halogen, alkoxy, (un)substituted PhO, NH₂; R = halogen, alkyl, alkoxy, SO₃H; V = direct bond, NR₃; R₃ = H, (un)substituted alkyl; X = direct bond, divalent aliphatic, divalent alicyclic, divalent arylaliph., divalent aromatic bridging group; Y = (un)substituted phenylene, (un)substituted naphthylene; Z = SO₂CH:CH₂, SO₂CH₂CH₂Z₁; Z₁ = alkali-cleavable substituent], useful for dyeing or printing hydroxyl or amide group-containing textiles, are prepared

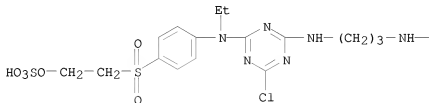
1,4-Diamino-2-methoxy-5-benzenesulfonic acid was condensed with chloranil, and the condensate cyclocondensed in the presence of 28% oleum to produce a diamino-substituted triphenodioxazine intermediate, which was condensed with cyanuric chloride, and the dichlorotriazine group-containing intermediate condensed with 1-aminobenzene-3-β-sulfatoethylsulfone, forming II, λ_{max} 600 nm, which dyed cotton in a fast red-blue shade.

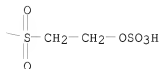
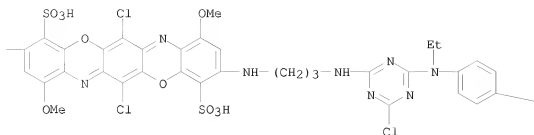
IT 117331-43-8P
 RL: PREP (Preparation)
 (manufacture of, as blue reactive dye)

RN 117331-43-8 CAPLUS

CN 4,11-Triphenodioxazinedisulfonic acid, 6,13-dichloro-3,10-bis[[3-[[4-chloro-6-[ethyl[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,8-dimethoxy- (9CI) (CA INDEX NAME)

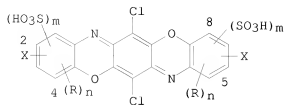
PAGE 1-A



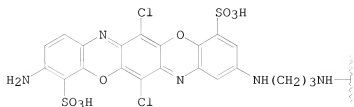


L23 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1988:456575 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 109:56575
 TITLE: Triphenodioxazine reactive dyes, their preparation and use
 INVENTOR(S): Seitz, Karl
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 260227	A1	19880316	EP 1987-810514	19870907
EP 260227	B1	19910116		
R: BE, CH, DE, FR, GB, IT, LI				
US 4841049	A	19890620	US 1987-92798	19870903
JP 63075066	A	19880405	JP 1987-225445	19870910
JP 2512493	B2	19960703		
PRIORITY APPLN. INFO.:			CH 1986-3666	A 19860912
OTHER SOURCE(S):	MARPAT 109:56575			
GI				



I



II

AB The title compds. I [R = Cl-4 alkyl, Cl-4 alkoxy, halogen, carboxy, carbamoyl, N-(Cl-4 alkyl)carbamoyl, N,N-(di-Cl-4-alkyl)carbamoyl, Cl-4 alkylsulfonyl, sulfamoyl, N-(Cl-4 alkyl)sulfamoyl, N,N-(di-Cl-4-alkyl)sulfamoyl; one X is H₂N and the other is -N(R₁)AN(R₂)Y; A = (un)substituted C₂-4 alkylene, (un)substituted cyclohexylene; R₁, R₂ = H, (un)substituted Cl-4 alkyl; Y = fiber-reactive residue; m = 1, 2; n = 0-2], useful for dyeing or printing of cellulosic fibers, are prepared I [X = 3-NH₂, 7-NH(CH₂)₃NH₂, m = 1 (positions 4 and 8); n = 0] was condensed with a dichlorotriazine-containing condensation product prepared from the reaction of equimolar amts. of cyanuric chloride and aniline-2,5-disulfonic acid, forming II, having λ_{max} 616 nm, which dyed cotton in a pure blue shade.

IT 115499-02-0P

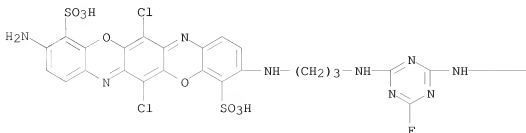
RL: PREP (Preparation)

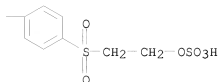
(manufacture of, as reactive dye for cellulosic fibers)

RN 115499-02-0 CAPLUS

CN 4,11-Triphenyldioxazinedisulfonic acid, 3-amino-6,13-dichloro-10-[[3-[[4-fluoro-6-[[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]- (CA INDEX NAME)

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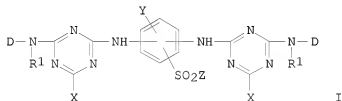




L23 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:638574 CAPLUS <<LOGINID::20080225>>
 DOCUMENT NUMBER: 107:238574
 TITLE: Reactive dyes for cotton
 INVENTOR(S): Kato, Yoshiaki
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62172062	A	19870729	JP 1986-13375	19860124
JP 06062873	B	19940817		

PRIORITY APPLN. INFO.: JP 1986-13375 19860124
 GI

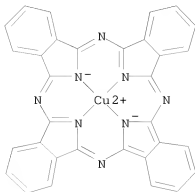


AB The title dyes were prepared having the general formula I [D = monoazo, polyazo, metal-containing azo, anthraquinone, phthalocyanine, formazan dye residue; R1 = H, (un)substituted alkyl; X = halogen; Y = H, halogen, (un)substituted alkyl; Z = CH:CH2, CH2CH2OSO3H]. 3,5-(H2N)2C6H3SO2CH2CH2OSO3H was condensed 1:2 (molar) with 2-[4-(2,4-dichloro-s-triazin-6-ylamino)-2-methylphenylazo]naphthalene-4,8-disulfonic acid and salted to give the corresponding I, yellow on cotton. The dyes prepared can be used with disperse dyes in 1-bath-1-step dyeing of polyester-cotton blends.

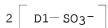
IT 111611-61-1
 RL: TEM (Technical or engineered material use); USES (Uses)

(dye, for cotton)
 RN 111611-61-1 CAPLUS
 CN Cuprate(5-), $\{\mu\text{-}[[\text{C}, \text{C}'\text{-}[[4\text{-}[[2\text{-}(\text{sulfooxy})\text{ethyl}]\text{sulfonyl}]]\text{-}1, 2\text{-phenylene}]\text{bis}[\text{imino}(6\text{-chloro-}1, 3, 5\text{-triazine-}4, 2\text{-diyl})\text{imino-}2, 1\text{-ethanediyliminosulfonyl}]]\text{bis}[\text{C-}(\text{aminosulfonyl})\text{-}29\text{H}, 31\text{H-phthalocyanine-C}, \text{C-disulfonato}]](9\text{-})\text{-N}29, \text{N}30, \text{N}31, \text{N}32\text{:N}29', \text{N}30', \text{N}31', \text{N}32']]\text{di-}, \text{pentahydrogen}(9\text{CI})$ (CA INDEX NAME)

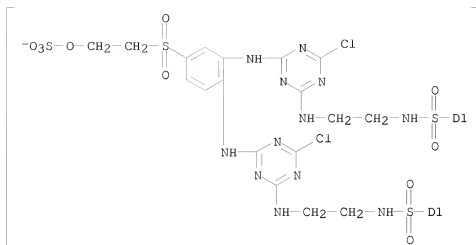
PAGE 1-A



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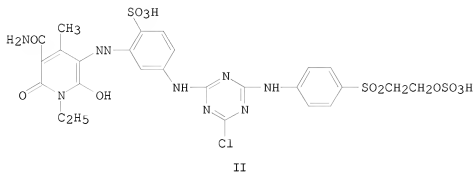
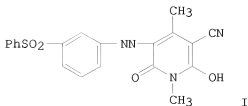


1/2

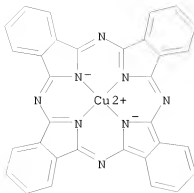
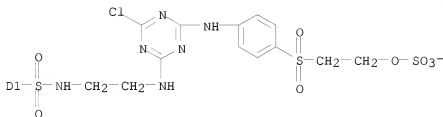
●5 H⁺

L23 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1986:574353 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 105:174353
 ORIGINAL REFERENCE NO.: 105:28099a,28102a
 TITLE: Dyeing of polyester-cellulose blends
 INVENTOR(S): Imada, Kunihiro; Sasakura, Masaaki; Ishizuka, Yoshio;
 Omura, Takashi; Oshima, Taizo
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61028084	A	19860207	JP 1984-145777	19840712
JP 06011947	B	19940216		
PRIORITY APPLN. INFO.:			JP 1984-145777	19840712
GI				



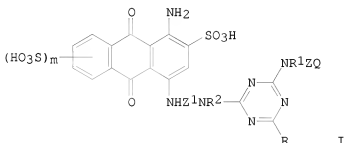
- AB Blend fibers are dyed with disperse dyes and reactive dyes with a 1-bath-2-stage process, and the reactive dyes for cellulosic fibers contain ≥ 1 nucleophilic substitution reaction-type reactive group and ≥ 1 nucleophilic addition reaction-type reactive group. The process includes dyeing a polyester with a disperse dye at 100-140° and pH 4-7.5, adjusting to 80-95° and pH 8-9.5, and dyeing cellulose with a reactive dye at 50-70° and pH 10-13. Thus, a polyester-cotton blend was dyed with I and II.
- IT 104744-96-9
 RL: USES (Uses)
 (reactive dyes, dyeing of polyester-cellulose blends with disperse dyes and)
- RN 104744-96-9 CAPLUS
- CN Cuprate(2-), [C-[[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]sulfonyl]-29H,31H-phthalocyanine-C-sulfonato(4-)-N29,N30,N31,N32]-, dihydrogen (9CI) (CA INDEX NAME)

D1- SO₃⁻● 2 H⁺

L23 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:133547 CAPLUS <<LOGINID:20080225>>
 DOCUMENT NUMBER: 102:133547
 ORIGINAL REFERENCE NO.: 102:20963a, 20966a
 TITLE: Anthraquinone dyes with fiber-reactive monohalotriazinyl and vinylsulfone groups
 INVENTOR(S): Kayane, Yutaka; Omura, Takashi; Otake, Katsumasa; Takeshita, Akira
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd. , Japan
 SOURCE: Ger. Offen., 60 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 3419072	A1	19841129	DE 1984-3419072	19840522
DE 3419072	C2	19951221		
JP 59215361	A	19841205	JP 1983-91215	19830523
JP 04032868	B	19920601		
JP 59217765	A	19841207	JP 1983-92944	19830525
JP 60092357	A	19850523	JP 1983-201835	19831026
JP 04060146	B	19920925		
US 4631341	A	19861223	US 1984-610750	19840516
CH 659078	A5	19861231	CH 1984-2520	19840522
PRIORITY APPLN. INFO.:			JP 1983-91215	A 19830523
			JP 1983-92944	A 19830525
			JP 1983-201835	A 19831026
OTHER SOURCE(S):		CASREACT 102:133547; MARPAT 102:133547		
GI				

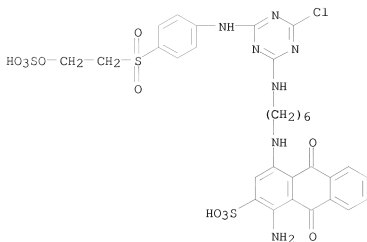


AB Fast blue dyes of general structure I are prepared, where R = halogen; Q = SO₂CH₂CH₂ or SO₂CH₂CH₂X (X = alkali-eliminable group); Z = (un)substituted phenylene or naphthylene; Z1 = optionally Me-substituted cyclohexanediyl, (un)substituted phenylenemethylene, or C2-6 alkylene; R1 and R2 = H or (un)substituted lower alkyl; and m = 0, 1, or 2. Thus, reaction of cyanuric chloride [108-77-0] with 4-H₂NC₆H₄SO₂CH₂CH₂OSO₃H [2494-89-5] at 5-10° and then with Na 1-amino-4-(4-aminocyclohexylamino)anthraquinone-2-sulfonate [95152-99-1] at 20-30°, followed by salting, gave I (R = Cl; R1 = R2 = H; ZQ = p-C₆H₄SO₂CH₂CH₂OSO₃H; Z1 = 1,4-cyclohexanediyl; m = 0; Na salt) [95153-12-1] (λ_{max} 622 nm), a brilliant blue dye for cotton with good fastness to light and perspiration. Number of other I were prepared

IT 95153-08-5
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dye, for cotton)

RN 95153-08-5 CAPLUS

CN 2-Anthracesulfonic acid, 1-amino-4-[[6-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]hexyl]amino]-9,10-dihydro-9,10-dioxo- (CA INDEX NAME)



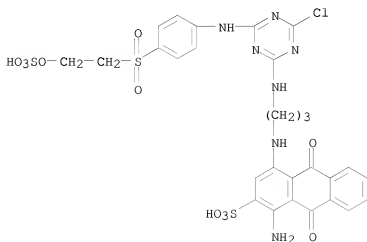
IT 95153-07-4P 95153-09-6P

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(manufacture of, as reactive dye for cotton)

RN 95153-07-4 CAPLUS

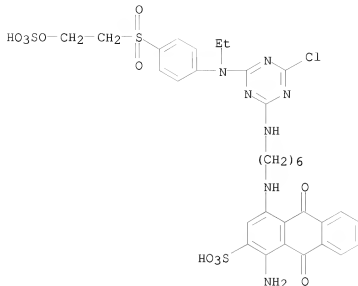
CN 2-Anthracenesulfonic acid, 1-amino-4-[[3-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 95153-09-6 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[[6-[[4-chloro-6-[ethyl[4-[[2-(sulfooxy)ethyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]hexyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

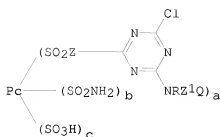


● 2 Na

L23 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:26388 CAPLUS <<LOGINID::20080225>>
 DOCUMENT NUMBER: 102:26388
 ORIGINAL REFERENCE NO.: 102:4343a,4346a
 TITLE: Phthalocyanine fiber reactive dyes
 INVENTOR(S): Omura, Takashi; Takahashi, Mikoto; Harada, Naoki;
 Takeshita, Akira
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Ger. Offen., 42 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3405204	A1	19840823	DE 1984-3405204	19840214
JP 59152958	A	19840831	JP 1983-25986	19830217
JP 01020657	B	19890418		
US 4505714	A	19850319	US 1984-579546	19840213
CH 659820	A5	19870227	CH 1984-751	19840216
			JP 1983-25986	A 19830217

PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 102:26388
 GI



I

AB Reactive phthalocyanine dyes of general structure I are prepared, where Pc = metal-free or metal-containing phthalocyanine residue, R = short-chain alkyl, Z = NR1(CH2)nNR2 (R1, R2 = H, Me, Et; n = 2-6) or 1,4-piperazinediyl, Z1 = (un)substituted phenylene or naphthylene, Q = SO2CH:CH2 or SO2CH2CH2R3 (R3 = alkali-removable group), a = 1-3, b and c = 0-3, and 0 < a + b + c ≤ 4. I give light- and wetfast brilliant turquoise dyeings and prints on cellulosic fibers. Thus, reaction of CuPc(SO2Cl)3SO3H with H2NCH2CH2NH2 and aqueous NH3, then with cyanuric chloride, and finally with 3-EtNHC6H4SO2CH2CH2CH2OSO3H gave I (Z = NHCH2CH2NH, R = Et, Z1 = m-C6H4, Q = SO2CH2CH2OSO3Na, a = 1.5, b = 0.5, c = 2), a water-soluble dye with λmax 670 nm. Other I were similarly prepared

IT 93971-97-2P

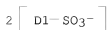
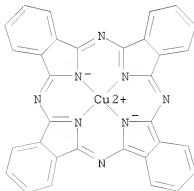
RL: PREP (Preparation)

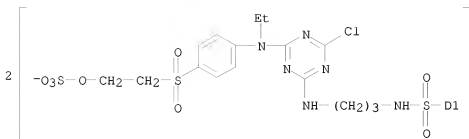
(manufacture of, as reactive dye for cellulose fibers)

RN 93971-97-2 CAPLUS

CN Cuprate(4-), [C,C-bis[[[3-[[[4-chloro-6-[ethyl[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C-disulfonato(5-)-N29,N30,N31,N32]-, tetrasodium (9CI) (CA INDEX NAME)

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IT 93971-96-1

RL: USES (Uses)

(reactive dye, for cellulose fibers)

RN 93971-96-1 CAPLUS

CN Cuprate(3-), [C-(aminosulfonyl)-C-[[[2-[[4-chloro-6-[ethyl[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C-disulfonato(5-)-N29,N30,N31,N32]-, trihydrogen (9CI) (CA INDEX NAME)

